Rec 2-10-87

MATERIAL SAFETY DATA SHEE

To the Purchaser: This MSDS contains important environmental, safety and health information for your employees who will be using this product. Please be sure this information is given to them. If you resell this product, a copy of the MSDS should be given to the buyer.

MANUFACTURER'S NAME Ferro Corporation/Composites Division	PHONE NO: Emergency (216)641-8580 Ext: 6320
ADDRESS (Number, Street, City, State, & Zip Code) 5915 Rodeo Road, Los Angeles, CA 90016	Dms 2055 Devic

SECTION I

RADE NAME CPH-2207/Woven Glass	DOT CLASS/ID NUMBER NA		
CHEMICAL & COMMON NAME(S) Phenolic Resin Mixture	FORMULA Trade Secret	,	

SECTION II

	SECTION	/IV II		
OSHA POTENTIAL HAZARDOUS INGREDIENT(S)	%		EXPOSURE LIMITS	
COMPONENT CASH	(Optional)	ACGIH-TLV	OSHA PEL	(Other) Cal/OSHA-PEI
Phenolic Resin Mixture		None Estab	lished.	
Pheno1 (< 5%) 108-95-2	32-55	5 ppm	5 ppm	5 ppm
Formaldehyde (< 0.5%) 50-00-0		1 ppm	3 ppm	2 ppm
Acetone 67-64-1		750 ppm	1,000 ppm	75Q ppm
Fiber Glass 65997-17-3	45-68	10 mg/M ³	nf	5 mg/M ³ *
ADDITIONAL INFORMATION *Nuisance Particulates ⟨ 1% Quartz, Re	espirable	Dust		

HMIS Label Information; Health 2 (Skin), Flammability: 1, Reactivity: 0,

Personal Protection: B.

SECTION III PHYSICAL DATA

BOILING POINT (°F.) Resin will cure before boiling	NA	SPECIFIC GRAVITY (H ₂ O=1)	N 1.4
VAPOR PRESSURE (mm Hg.) @ 25°C	< 1	VOLATILES BY VOLUME (%) 10min.@325°F	3-9
VAPOR DENSITY (AIR =1)	> 1	EVAPORATION RATE (BUTYL ACETATE=1)	4 1
SOLUBILITY IN WATER	Negligible	MELTING POINT (*F)	NA
APPEARANCE & ODOR: Woven fiber am formaldehyde		color, at ambient temperature, a	light

SECTION IV FIRE & EXPLOSION HAZARD DATA

FLASH POINT (Method Used) Uncured material, open cup > 350°F FLAMMABLE LIMITS LEL NA VEL NA
EXTINGUISHING MEDIA CO ₂ , Dry chemical chemical, foam, water fog.
SPECIAL FIRE FIGHTING PROCEDURES Combustion will give off toxic products. Use self-contained breathing apparatus.
UNUSUAL FIRE & EXPLOSION HAZARDS (See Reactivity Section for other physical hazards) Airborne dusts produced from grinding or cutting of the cured prepreg resin may ignite if exposed to an ignition source. Keep this work away from sources of ignition. Ground equipment to prevent static electricity.

NA = NOT APPLICABLE

NF = NOT FOUND

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STABILITY	UNSTABLE		CONDITIONS TO AVOID		
	STABLE	Х	See "Incompatibility" Section below.		
INCOMPATIBILITY (Materials to Avoid)				
Strong Acids	or Alkalies, MPOSITION PRODUC	Strong	Oxidizing Agents		
Phenols, Alde	hvdes, Carbor	Monoxi	de, Cyanide		
HAZARDOUS	MAY OCCUR		CONDITIONS TO AVOID		
POLYMERIZATION	WILL NOT OCCUR	Х	None expected		
	WILL HOT COOK		ION VI HEALTH HAZARD DATA		
PRIMARY ROUTES	OF ENTRY	SECI	IOM ALUENTILL INTENIES DATA		
Skin Primary.	Inhalation S		y and another by debala		
SYMPTOMS AND E Long term bre	tissue death ogram. (D.H. FFECTS OF OVERE athing of due	t from	If yes, explain: Formaldehyde (gas) tested positive by inhala exposure that caused nasal tumors also caused acute flammation in the nasal cavity. Listed by National innual Report on Carcinogens. Dust and vapor are mild pulmonary and eye irritants. machining the material can damage the lungs. The untizer. Pre-existing skin allergies may place a worker		
at increased exposure to d tion may caus be aggravated to have a low exposure to h	risk of develust, or the vie asthamtic so by dust or vie order of actionant results the discomfort	loping a vapors free sitization from the toxi in versitation from the toxi incre	llergic dermatitis from repeated contact, kepeated rom heated uncured resin, where there is poor ventilation in some people. Pre-existing eye disorders may om this product. Ingestion of material is considered city. Formaldehyde (gas) air contaminant at 2 or 3ppm, y mild tingling sensation in the eyes, nose and throat, eases rapidly and tearing of the eyes may occur. Sub-		
Stance has good irritant warning properties. EMERGENCY AND FIRST AID PROCEDURES Respiratory irritations and headaches: Person should be removed to fresh air and referred to a physician. Eye contact: must be flushed immediately with large quantities of water; medical attention should be obtained without delay. Ingestion: dilute with milk or water, induce vomiting, call a physician. Skin irritation: remove person from the causative source, thoroughly wash with soap and water after contact. If irritation persists for several days, seek medical treatment from a physician competent in industrial health.					
			I VII SPILL OR LEAK PROCEDURES		
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Normal procedures for solid trash; only cured material should be allowed with general trash.					
WASTE DISPOSAL METHOD Non-hazardous cured resin material should be disposed of in accordance with state and local solid waste regulations.					
SECTION VIII RECOMMENDED CONTROL MEASURES					
RESPIRATORY PROTECTION Above the TLV: NIOSH approved for pneumoconiosis producing dusts and organic vapors. VENTILATION LOCAL EXHAUST "C" stage grinding and sawing or using heat guns on "B" stage. MECHANICAL (General) Curing rooms.					
PROTECTIVE GLOVES Polyolefin or Neoprene Type or EYE PROTECTION Goggles for dust protection No Tack" B-stage solvent repellent skin creme in machining operation. OTHER PROTECTIVE EQUIPMENT Long sleeve shirts and pants recommended be worn for lay-up and machining operations.					
Wear clean clothes daily; resin contaminated clothes could promote dermatitis. SPECIAL PROTECTIVE MEASURES FOR REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT Review MSDS prior to preparing equipment for maintenance-repair.					
SECTION IX SPECIAL PRECAUTIONS					
PRECAUTIONS TO BE TAKEN IN HANDLING & STORING (including appropriate hygienic practices) Store the uncured prepreg at 40°F or less. Keep the uncured material away from sources of ignition. Wash hands before eating, smoking, or applying cosmetics.					

SECTION V REACTIVITY DATA

CPH-2207/Woven Glass

TRADE NAME

DO NOT STORE FOOD IN WORK AREAS!

1/30/87

ISSUE DATE

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